Ontario Ministry of Northern Development and Mines

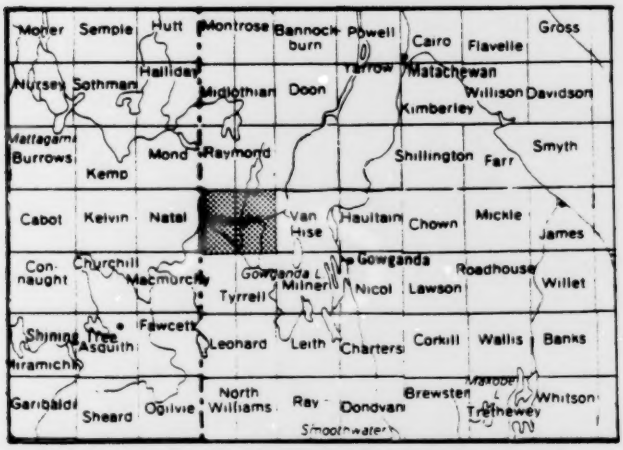
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 495

KNIGHT TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Cobalt



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Exploration Minerals

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

NTS Number 41P/10,11,14,15

Mining Claim Map Number M-228

This project is part of the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Knight Township, Geological Data Inventory Folio 495; compiled by the staff of the Resident Geologist's office, Cobalt.

Original Compilation by: Patricia Anderson, Jan. 10, 1989

Date	Page Revised	Revised by

Date	Page Revised	Revised by

KNIGHT TOWNSHIP

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

Property Location Map - 1 map

Exploration Data Map - 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	D.P.A.
2	Assessment Files Research Office, Toronto	Yes	D.P.A.
3	ODM General Index; 9 Volumes	Yes	D.P.A.
4	Catalogue of Airborne Geophysical Surveys (ODM)	N.A.	D.P.A.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	D.P.A.
6	ODM Industrial Mineral Reports	No	D.P.A.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	D.P.A.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	D.P.A.
9	Newspaper Clippings File	Yes	D.P.A.
10	GSC Index to Publications	Yes	D.P.A.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	D.P.A.
12	OGS Index Maps	Yes	D.P.A.
13	Source Mineral Deposit Records (O.G.S.)	Yes	D.P.A.
14	Author - Subject Articles File	No	D.P.A.
15	Miscellaneous Papers: ODM & OGS	Yes	D.P.A.
16	ODM Geological Circulars: OGS Study Series	Yes	D.P.A.
17	ODM Preliminary Reports: ODM Bulletins	Yes	D.P.A.
18	ODM – OGS Open File Reports	Yes	D.P.A.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	D.P.A.
20	OGS Aggregate Resources Inventory Papers	N.A.	D.P.A.
21	OGS Mineral Potential Maps	Yes	D.P.A.
22	Theses on File, Cobalt	No	D.P.A.
23	Aerial Photographs on File, Cobalt	Yes	D.P.A.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
▲ asp . . . . . .Arsenopyrite
▲ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . .Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . .Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
▲ ch. . . . . .Chert
△ clay . . . . . .Clay
▲ Co . . . . . .Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
▲ fu. . . . . .Fuchsite
▲ gn. . . . . .Galena
△ gt. . . . . .Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
▲ gf. . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . .Gypsum
▲ hem . . . . . Hematite
△ il . . . . . .Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
△ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . .Magnesite
▲ mag . . . . . .Magnetite
△ mc . . . . . .Malachite
△ Mn . . . . . Manganese
▲ mb . . . . . .Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . .Millerite
△ mo . . . . . Molybdenite
▲ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
△ Pt. . . . . .Platinum
▲ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
▲ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
▲ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . Smaltite
△ sod. . . . . Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur. . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . .Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
▲ Zn . . . . . .Zinc
△ zr . . . . . Zircon
▲mp . . . . . .Mariposite

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps or listed in Drillhole Summary.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Pigeon Lake (Hurst, Wahbic)	Au-major Mo, Cu, asb-minor	T0313	MRC 7, p. 81 MDC 18, p. 142 NM1 File 41P/11, Au 2	ODM, 1932, AR Vol 41, pt 2, p. 60 GSC, 1963, Econ. Geol. Rpt. No. 20, p. 86 OGS, 1983, Report 225, pp. 61-62, 66-67 OGS, 1975, Map P.1037 Knight Tp. AF: Whitegate Mi ing Co. Ltd. Amax Potash Ltd. Wahbic Explorations Ltd.
B.	Decker Prospect	Au-major	T0314	MDC 18, pp. 141-142 NM1 File 41P/11, Au?	ODM, 1975, Map P.1037 OGS, 1983, Map 2465 OGS, 1983, Report 225, pp. 62-64 Knight Tp. AF: Camdeck Gold Mines Ltd. Becnite Mines Ltd. Wexford Mines Ltd. Initiative Explorations Ltd.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
C.	McIntyre Porcupine Occurrence	Au, Cu, asp, py		MDC 18, p. 206	ODM, 1932, AR Vol 41, pt. 2, p. 57 ODM, 1975, Map P.1037
D.	Timiskaming Occurrence	Au, py, po, Ag		MDC 18, p. 206	ODM, 1975, Map P.1037 Knight Tp. AF: Timiskaming Nickel Ltd.
E.	Arthur Lake	Ni-major Zn, Au, Co, Ag, Cu-minor	T0316	NM1 File, 41P/11, Ni 1	OGS, 1975, Map P.1037 OGS, 1983, Report 225, pp. 59-60
F.	Duncan Lake (Guaranty Trust)	Ag, Au - major	T0317	NMI File, 41P/11, Au17	OGS, 1975, Map P.1037 OGS, 1983, Report 225, p. 61 and Map 2465
G.	Gardner (Metikemedo)	Au-major	T0315	MDC 18, p. 142	OGS, 1983, Map 2465 OGS, 1983, Report 225, p. 62 OGS, 1975, Map P.1037

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
G. cont.	Gardner (Metikemedo)				Knight Tp. AF: Courageous Gold Mines Ltd. Timiskaming Nickel Ltd.

TYPE OF WORK

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

	EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE — COBALT / COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Amax Potash Ltd. AFRO# 2.998	71	71			71		72				71	71							
2	Becnite Mines Ltd. (Decker claims)				50															
3	Big Divide Gold Mines Knight & MacMurchy Tps. (work done by Erie Canadian Mines Ltd., Sylvanite Exploration Dept.)	37																		
4	Camdeck Gold Mines Ltd. Knight, MacMurchy & Natal Tps. See also Decker 7			44	44	44														
5	Coulis, Louis Leo Guaranty Trust Co. of Canada, 1974, GG3004			39		39		39												

GDIF FORM NO. 2

KNIGHT TOWNSHIP

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
6	Courageous Gold Mines Ltd.			59	59	59		62												
7	Decker, Albert			84 46 74		46		48												
8	Duggan, L; Knight & Tyrrell fp.; see also OGS, 1983, Report 225, p. 60 McIntyre Porcupine Mines Ltd., 1930 Duggan, L. - optioned to Erie Canadian Mines Ltd.			31 37	38															
9	Gardiner, H. - optioned to Erie Canadian Mines Ltd.	36		36		36		36 61												

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	BENEFICATION		
	COMPANY/AUTHOR (file number)																			
10	Hurst, O.J. & Hurst, C.F. - optioned to Erie Canadian Mines Ltd., 1936 - optioned to R.E. Hore, 1931	36		 31		36		36												
11	Initiative Exploration Ltd.				65	65														
12	Sutherland, Wm. Don; Arthur Lake Mines Ltd. Natal, Knight, MacMurchy & Tyrrell Tps.				66 67	66 67		65 71												
13	Temiskaming Nickel Ltd. Knight, Tyrrell, Natal, Raymond, MacMurchy & Kelvin Tps.			70 68 69	68	68				68								71		

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
	COMPANY/AUTHOR (file number)																			
14	Tyranite Mines Ltd; Sylvanite Gold Mines Ltd. Hedlund, Louis O.	40			40 31	 31	39-42	78 51 33												
15	Wahbic Explorations Ltd.				68			71 70												
16	Whitegate Mines Ltd.	65			67 65															
17	Wexford Mines Ltd.				58															
18	Getty Mines Ltd. West Montreal River Group Knight & Tyrrell Tps.	75	76									75	76							

KNIGHT TOWNSHIP

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GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE COBALT COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
19	Getty Mines Ltd. Arthur Lake Group Natal & Knight Tps.	76	76									75								
20	Tyranex Gold Inc., Gunnar Gold Inc., Mill City Gold Inc., Knight & Tyrrell Tps. All data confidential at present	87			87 88	87 88	88					87	87		87					
21	New Senator-Rouyn Ltd., see OGS, 1983, Report 225, p.62				64	64		36												
22	Moyneur, J.B. - optioned to Erie Canadian Mines Ltd.	35				38 36 35		38 35 36												

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
1	Becnite Mines Ltd.	1	1950	288	-46	5	171	py, hem, cp	
		2	1950	290	-48	8	195	py, cp	
		3	1950	302	-49	5	269	py, cp	
		4	1950	112	-47	26	268	py, cp	
		5	1950	112	-40	23	263	py	
		6	1950	120	-53	23	282	py	
		7	1950	105	-40	25	190	py, po	
		8	1950	150	-40	25	181	py	
		9	1950	100	-40	30	686	py, po, gf	
2	Camdeck Gold Mines Ltd.	1	1944	282	-45		167.0		Au
		1a	1944	270	-60		93.9		Au
		2	1944	095	-45		68.7		Au
		3	1944	102	-33		95.5		Au
		4	1944	275	-45		135.9		Au
		5	1944	323	-45		48.8		Au
		6	1944		-45		45.9		Au
		7	1944	295	-45		103.9		Au
		8	1944	140	-45		35.5		Au
		9	1944		-38		17.8		Au
		10	1944	122	-50		36.0		Au

GDIF FORM NO. 3

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DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
2	Camdeck Gold Mines Ltd.	11	1944	253	-53		208.5		Au
		12	1944	064	-35		100.3		Au
		13	1944	112	-35		98.5		Au
		14	1944	101	-35		91.8		Au
		15	1944	280	-36		119.1		Au
		16	1944	304	-45		66.0		Au
		17	1944	300	-45		85.6		Au
		18	1944	295	-45		83.0		Au
		19	1944	313	-50		131.9		Au
		20	1944	235	-45		29.0		Au
		21	1944	120	-45		82.2		Au
		22	1944	306	-43		106.0		Au
3	Courageous Gold Mines Ltd.	1A	1959	180	-50	0	26		
4	Courageous Gold Mines Ltd.	1	1959	020	-50	0	50		
		2	1959	020	-52	0	52		
		3	1959	020	-45	0	50		
		4	1959	020	-45	0	63		
		5	1959	020	-50	0	101	py	
		6	1959	020	-50	0	104		Au
		7	1959	020	-50	0	102		

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
4	Courageous Gold Mines Ltd.	8	1959	020	-50	0	103		
		9	1959	020	-50	0	92.5	Au	Au
		10	1959	020	-50	0	51		Au
		11	1959	022	-50	0	72		Au
		12	1959	020	-50	0	57		
		13	1959	020	-50	0	101	Au	Au
		14	1959	020	-50	0	104		
5	Courageous Gold Mines Ltd.	A1(15)	1959	180	-50	0	108	py	
		A2(16)	1959	000	-50	0	101	py	
6	Initiative Exploration Ltd.	1	1965	087	-45	37	403	py	Au, Ag
		2	1965	087	-45	47	481.6	py, gn, hem	Au
7	Initiative Exploration Ltd.	3	1965	270	-45	0	251.5	py, cp, hem	Au
8	Initiative Exploration Ltd.	4	1965	285	-45	1	302.0	py	Au, Ag
		5	1965	279	-45	5	684.7	py, hem	Au, Ag
9	Initiative Exploration Ltd.	6	1965	288	-45	35	523.0	py, fu	Au

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
10	Sutherland, Wm. Don	1	1966	090	-45	7	325	py, ch, mp	
		2	1966	260	-45	10	1006	py	
		3	1966	260	-45	6	326	py, ch, po	
		4	1966	080	-45	12	1157	py, po	
		5	1966	260	-45	23	505	py, mb, ch	
		6	1966	080	-45		522	py, ch, hem	
11	Sutherland, Wm. Don (Arthur Lake Mines Ltd.)	A-1	1967	090					
		A-2	1967	260					
12	Sutherland, Wm. Don (Arthur Lake Mines Ltd.)	A-3	1967	258					
		A-4	1967	078					
13	Sutherland, Wm. Don (Arthur Lake Mines Ltd.)	A-5	1967	260					
		A-6	1967	080					
14	Sutherland, Wm. Don (Arthur Lake Mines Ltd.)	A-10	1967	270	-45	120	602		
		A-11	1967	090	-60	107	525		
15	Sutherland, Wm. Don (Arthur Lake Mines Ltd.)	A-12	1967	090	-45	118	391		

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
16	Sutherland, Wm. Don (Arthur Lake Mines Ltd.) - drilled from Natal Tp into Knight Tp.	A-13	1967	270	-45	6	342		
		A-15	1967	090	-45	126	507	py, gf	
17	Sutherland, Wm. Don (Arthur Lake Mines Ltd.)	A-22	1967	090	-45	70	497		
18	Tyranite Mines Ltd.	7	1940	100					
		14	1940	277					
		27	1940	100					
		13	1940	080					
		25	1940	090					
		21	1940	090					
		24	1940	090					
19	Hedlund, Louis O.	1	1931	090	-45				Au
		2	1931	090	-45				Au
		3	1931	090	-45				Au
		4	1931	090	-45				
		5	1931	090	-45				Au
		6	1931	090	-45				Au
		7	1931	090	-45				Au

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
19	Hedlund, Louis O.	8	1931	090	-65				Au
		9	1931	090	-63				Au
		10							
		11	1931	090	-50				Au
		12							
		13							
		14							
		15	1931						Au
		16	1931	270					Au
		17	1931						Au
20	Wahbic Explorations Ltd.	W-3	1968	090	-45	20	576		
		W-5	1968	270	-45	22	554		
21	Wahbic Explorations Ltd.	W-4	1968	090	-45	17	502		
22	Whitegate Mines Ltd.	3	1965	218	-40	15	950	py, po	Au
23	Whitegate Mines Ltd.	4	1965	140	-45	8	303	py, po	Au
24	Whitegate Mines Ltd.	W-1	1967	090	-45	34	596	mag	
	Timiskaming Nickel Ltd.	W-2	1967	090	-45	14	441		

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
25	Wexford Mines Ltd.	1	1958	270	-45	0	100		
		2	1958	270	-45	0	100		
		3	1958	270	-45	0	100		
		4	1958	270	-45	0	100		
		5	1958	270	-45	0	100		
26	Duggan, L.		1938 -	13 holes totalling 596m. no logs available					
			-	location shown on map in Tyranite Mines Ltd. AF.					
27	New Senator-Rouyn Ltd.	1	1964	010	-45	10	200	py	Au
		2	1964	012	-45	9	222	py	Au
		3	1964	010	-45	3	126	py	Au
		4	1964	012	-45	9	346		Au
		5	1964	010	-45	38	187	py	Au
28	Timiskaming Nickel Ltd.	KT1	1968	090	-45	19	504		
29	Timiskaming Nickel Ltd.	KT2	1968	090	-49	58	480		
30	Timiskaming Nickel Ltd.	KT3	1968	090	-45	32	574	serp	
		KT4	1968	270	-45	33	502	serp	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
31	Timiskaming Nickel Ltd.	KT6	1968	090	-45	71	501	serp	
		KT8	1968	270	-45	85	245	serp	
		KT10	1968	270	-60	72	164	serp	
32	Timiskaming Nickel Ltd.	KT5	1968	270	-45	54	503	serp	
		KT7	1968	270	-45	82	306		
33	Timiskaming Nickel Ltd.	KT9	1968	090	-45	24	505	serp	
34	Timiskaming Nickel Ltd.	KT11	1968	270	-45	92	92		
35	Timiskaming Nickel Ltd.	KT12	1968	090	-45	52	423	serp	
		KT13	1968	270	-55	58	145		
		KT14	1968	270	-51	60	533	serp	
36	Timiskaming Nickel Ltd?	B2	?	270					
37	Timiskaming Nickel Ltd?	C1	?	090					
		C2	?	090					
38	Timiskaming Nickel Ltd?	C3	?	-	-90				
		C3A	?	090					
		C4	?	090					

GDIF FORM NO. 3

KNIGHT TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth DEGREES	Initial Dip of Hole DEGREES	Thickness of Overburden FEET	Total Length of Hole FEET	Mineralization Noted in Log	Assay Data Included for
39	Timiskaming Nickel Ltd?	C5	?	090					
40	Timiskaming Nickel Ltd?	C6	?	090					
41	Timiskaming Nickel Ltd?	C7	?	090					
42	Timiskaming Nickel Ltd?	C8	?	090					

GDIF FORM NO. 3

20 KNIGHT TOWNSHIP

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
13	By: Lockwood Survey Corporation Ltd. For: Timiskaming Nickel Ltd.	EM	200'	E-W	330'

GDIT FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
18	B horizon soil samples	Cu and Zn by hot nitric-hydrochloric acid process and atomic absorption	Getty Mining Northeast, Ltd., 1975 and Bondar-Clegg & Co. Ltd.	Tyrrell Tp. AF: Getty Mines Ltd., West Montreal River Group.
19	B horizon soil samples	Cu and Zn by hot nitric-hydrochloric acid process and atomic absorption	Getty Mines Northeast, Ltd., 1976, and Bondar-Clegg & Co. Ltd.	Natal Tp AF: Getty Mines Ltd. Arthur Lake Group.
1	Soil samples	Cu, N:, Ag, Zn, Pb by hot $HC1O_4$-HNO_3	Amax Potash Ltd.	Knight Tp AF: Amax Potash Ltd.

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result
	No data available as of January 10, 1989.			

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office, Cobalt.

Becnite Mines Ltd.
Gunnar Gold Inc.
Tyranex Gold Inc.
Tyranite Mines Ltd.

ODM GENERAL INDEX SEARCH

Words searched:

Amax Potash Ltd.
Arthur Lake
Arthur Lake Mines Ltd.
Becnite Mines Ltd.
Big Divide Gold Mines
Brady Lake
Brush Lake
Camdeck Gold Mines Ltd.
Coulis, Louis Leo
Courageous Gold Mines Ltd.
Cyril Lake
Dalhousie Oil Co. Ltd.
Decker, Albert
Duggan, L.

Index Volume	Listing:	Report Volume	Part	Page
1	Hedlund, L.O.	*19	2	193
	Holbrook H.R., L.J., L.V.	* 7		103
		* 9		115,116
		*10		142
		*11		74
		*12		66
	Knight Tp., Tim.	*19	1	52
	Metikemedokagoda Lake, Montreal River	*N.O.[1]		83
2	Hedlund, L.O.			
	Prospecting, Gowganda S. area	*30	3	42
3	Big Divide Gold Mines Ltd.			
	Incorporated	44	1	44
	Brush Lake, Knight Tp.			
	Eskers	*41	2	31
	Cyril Lake, Knight Tp.			
	Slate	*41	2	46
	Duncan Lake, Tyrrell - Knight area			
	Access	*41	2	27
	Gold claims near	*41	2	49-52
	See also map 41b with	*41	2	
	Rocks	*41	2	45-47
	Topography	*41	2	30, 31

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Duncan Lake
Erie Canadian Mines Ltd.
Gardner, D.H.
Getty Mines Ltd.
Guaranty Trust
Gunnar Gold Inc.
Hedlund, Louis O.
Holbrooke
Hollinger Mines Ltd.
Hore, R.E.
House Lake
Hurd
Hurst, C.F. and O.J.
Initiative Explorations Ltd.

Index Volume	Listing:	Report Volume	Part	Page
3	Gardiner-Johnston gold claims, Tyrrell-Knight area			
	Location	*41	2	55
	Hedlund gold claims, Tyrrell-Knight area			
	Lamprophyre, photomicrograph	*41	2	43
	Report and sketch map	*41	2	49-53
	Serpentine, photomicrograph	*41	2	39
	Holbrook, G.L.			
	of Erie Canadian g.m.	46	1	72
	Hurst, Charles			
	Gold claims, Knight Tp.	*41	2	59
	Hurst gold claims, Knight Tp.			
	Report and plan	*41	2	59,60
	Knight Tp; Tim.			
	Geology. See Tyrrell-Knight area			
	Gold mg. See Tyranite g.m.			
	McIntyre gold claims, Tyrrell and Knight tps.			
	Location. See map 41b with	*41	2	
	Report and plan	*41	2	56,57

ODM GENERAL INDEX SEARCH

Words searched:

Jordan
Knight Township
Lehmann Lake
McIntyre Porcupine Mines Ltd.
Mather
Melia Lake
Metikemedo Lake
Mill City Gold Inc.
Milly Creek
Moon Lake
Morton Lake
New Senator Rouyn Ltd.
Noranda Mines Ltd.
Parcher, Aaron

Index Volume	Listing:	Report Volume	Part	Page
3	McIntyre-Porcupine Mines Ltd.			
	Capital; officers; operations: (1926)	*36	1	49
	(1927)	37	1	123
	(1928)	*38	1	127
	(1929)	39	1	111
	(1930)	40	1	89
	(1931)	41	1	79
	(1932)	42	1	82
	(1933)	43	1	88
	(1934)	44	1	117
	(1935)	45	1	132
	(1936)	46	1	169
	(1937)	47	1	161
	(1938)	48	1	149
	(1939)	49	1	157
	Pigeon Lake, Knight Tp.			
	Gold mg. See Hurst g. claims			
	Rocks, notes and photos	*41	2	36, 39-46
	Timber	*41	2	32
	Tyranite gold mine, Tyrrell tp.			
	Accident rate (1939)	49	1	248
	Mill capacity	49	1	25
	Operations. See Tyranite Mines			
	Production - facing	49	1	12
	Tyranite Mines Ltd.			
	Capital; officers; operations: (1936)	46	1	214
	(1937)	47	1	220
	(1938)	48	1	210
	(1939)	49	1	211
	Incorporated	45	1	53
	Tyrrell-Knight area, Tim.			
	Report on, by A.R. Graham	*41	2	25-61

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Pigeon Lake
Polliwog Lake
Spade Lake
Stem Lake
Stroud, W.D.
Sutherland, Wm. Don & Associates
Sylvanite Exploration
Thompson Lake
Timiskaming Nickel Ltd.
Trump Lake
Tyranex Gold Inc.
Tyranite Mines Ltd.
Tyrrell-Knight area
Wahbic Explorations Ltd.

Index Volume	Listing:	Report Volume	Part	Page
4	Becnite Mines Ltd.			
	Incorporated	59	1	44
	Camdeck Gold Mines Ltd.			
	Incorporated	54	1	44
	Courageous Gold Mines Ltd.			
	Incorporated	54	1	45
	Knight Tp., Tim.			
	Gold mg. See Tyranite g.m.			
	Stroud, W.D.			
	of Tyranite g.m.	50	1	137
		52	1	194
	Sylvanite Gold Mines Ltd.			
	Capital, officers, operations: (1940)	50	1	126-130
	(1941)	51	1	195-198
	(1942)	52	1	184-187
	(1943)	53	1	155-158
	(1944)	54	2	85-88
	(1945)	55	2	71-74
	(1946)	56	2	71,82
	(1947)	57	2	84-86
	(1948)	58	2	73-75
	(1949)	59	2	72-74
	Tyranite gold mine, Tyrrell tp.			
	Mill capacity	59	1	24
	Operations. See Tyranite Mines			
	Production (1940)---facing	50	1A	8
	(1941)---facing	51	1	16
	(1942)---facing	52	1	10
	Statistics	59	1	19

ODM GENERAL INDEX SEARCH

Words searched:
West Montreal River
Wexford Mines Ltd.
Whitegate Mines Ltd.

Index Volume	Listing:	Report Volume	Part	Page
4	Tyranite Mines Ltd.			
	Capital; officers; operations: (1940)	50	1	136
	(1941)	51	1	205
	(1942)	52	1	193,194
5	Camdeck Gold Mines Ltd.			
	Name changed	64	1	60
	Tyranite gold mine, Tyrrell tp.			
	Mill capacity (1951)	61	1	27
	Production statistics	64	1	26
7	Tyranite Mines Ltd.			
	Plant acquired by Thorncliffe Mines	71		67
8	Amax Potash Ltd.			
	Knight Tp., Timiskaming Dist.	MP 59		112
	Arthur Lake			
	Knight Tp., Timiskaming Dist.	MP 59		115
	Arthur Lake Mines Ltd.			
	Knight Tp., Timiskaming Dist.	MP 59		115
	Becnite Mines Ltd.			
	Knight Tp., Timiskaming Dist.	MP 59		115
	Camdeck Mines Ltd.			
	Knight Tp., Timiskaming Dist.	MP 59		115

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Coulis, L.L. Knight Tp., Timiskaming Dist.	MP 59		112
	Courageous Gold Mines Ltd. Knight Tp., Timiskaming Dist.	MP 59		111
	Decker, A. Knight Tp., Timiskaming Dist.	MP 59		111,112, 115
	Erie Canadian Mines Ltd. Knight Tp., Timiskaming Dist.	MP 59		111
	Gardner, D.H., Prospector Knight Tp., Timiskaming Dist.	MP 59		111,115
	Hedlund, L.O. Property Knight Tp., Timiskaming Dist.	MP 59		111
	Hollinger Mines Ltd. Knight Tp., Timiskaming Dist.	MP 59		112
	Hurst, L.F. Knight Tp., Timiskaming Dist.	MP 59		111
	Knight & Natal Tps., Sudbury & Timiskaming Dist. summary of field work, 1974 by M.W. Carter	MP 59		110-116
	McIntyre Porcupine Mines Ltd. Knight Tp., Timiskaming Dist.	MP 59		111

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	New Senator Rouyn Ltd.			
	Knight Tp., Timiskaming Dist.	MP 59		111
	Timiskaming Nickel Ltd.			
	Natal Tp. area, Timiskaming & Sudbury Dist.	MP 18		7
		MP 59		111,112
		MP 63		77,78
	Tyranite Mines Ltd.			
	Knight Tp., Timiskaming Dist.	MP 59		111
	Wahbic Explorations Ltd.			
	Knight Tp., Timiskaming Dist.	MP 59		112
	Whitegate Mining Co. Ltd.			
	Knight Tp., Timiskaming Dist.	MP 59		112
9	Amax Potash Ltd.			
	Macmurchy Tp. area, Sudbury & Timiskaming Dist.	GR 146		34
		GR 152		34-35
	Dalhousie Oil Co. Ltd.			
	Tyrrell Tp., Timiskaming Dist.	GR 152		41-42
	Decker Prospect			
	Knight Tp., Timiskaming Dist.	MDC 18		141-142
	Duggan, H., Gardiner, H.D. & Harkin, T.L.			
	Tyrrell Tp., Timiskaming Dist.			
	report on property	GR 152		39,42

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Duggan Brothers Tyrrell Tp., Timiskaming Dist.	GR 152		60
	Duncan Lake Tyrrell Tp., Timiskaming Dist.	GR 152		10,22, 27
	Duncan Lake Fault Tyrrell Tp., Timiskaming Dist.	GR 152		23,26, 27
	Gardner Prospect Knight Tp., Timiskaming Dist. report on property	MDC 18		142
	Knight Tp., Timiskaming Dist. gold	MDC 18		141-142 206-207
	McIntyre Lake Knight & Tyrrell Tps., Timiskaming Dist.	GR 152		18,51
	Milly Lake Tyrrell Tp., Timiskaming Dist.	GR 152		18,21
	Spade Lake Knight & Tyrrell Tps., Timiskaming Dist.	GR 152		18
	Timiskaming Occurrence Knight Tp., Timiskaming Dist.	MDC 18		206-207

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ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
9	Tyranite Mine			
	Tyrrell & Knight Tps., Timiskaming Dist.			
	report on property	GR 152		28,30, 31
		MDC 18		185
	Tyranite Mines Ltd.			
	Tyrrell Tp., Timiskaming Dist.			
	report on property	GR 152		55-56
	Wahbic Prospect			
	Knight Tp., Timiskaming Dist.			
	report on property	MDC 18		142
	N.O.[1]- Report of the Survey and Exploration of Northern Ontario, 1900			
	*Out of print			

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Carter, M.W.	1975	Knight Township, NTS 41P/10+11, Sudbury District, Ontario	ODM Map P.1037	1:15 840
Carter, M.W.	1980	Shining Tree Area, NTS 41P/11, Timiskaming and Sudbury Districts, Ontario	OGS Map P.2313	1:50 000
Carter, M.W.	1981	Natal and Knight Townships, NTS 41P/10NW+11NE, Sudbury and Timiskaming Districts, Ontario	OGS OFR 5337	
Carter, M.W.	1981	Shining Tree Area, NTS 41P/11, Timiskaming and Sudbury Districts, Ontario	OGS OFR 5346	
Carter, M.W.	1983	Geology of Natal and Knight Townships NTS 41P/10NW+11NE, Sudbury and Timiskaming Districts, Ontario	OGS Report 225	
Carter, M.W.	1983	Natal and Knight Townships, NTS 41P/10NW+11NE, Sudbury and Timiskaming Districts	OGS Map 2465	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Zn in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL TPS, NTS 41P/11, Sudbury District, Ontario	ODM Map P.1003	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Ni in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL TPS, NTS 41P/11, Sudbury District, Ontario	ODM Map P.1004	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Co in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL TPS, NTS 41P/11, Sudbury District, Ontario	ODM Map P.1005	1:31 680

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Closs, L.G.	1975	Geochemical Distribution of Cu in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL TPS, NTS 41P/11, Sudbury District, Ontario	ODM Map P.1006	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Cr in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL TPS, NTS 41P/11, Sudbury District, Ontario	ODM Map P.1007	1:31 680
Closs, L.G.	1975	Geochemical Distribution of Mn in B Horizon Soils & Till Components in Parts of Kelvin + 3 AL TPS, NTS 41P/11, Sudbury District, Ontario	ODM Map P.1008	1:31 680
Collins, W.H.	1909	Preliminary Report on the Gowganda Mining Division, District of Nipissing, Ontario	*GSC Separate Report 1075 *GSC Map 1076	 1:63 360
Collins, W.H.	1914	The Geology of the Gowganda Mining Division	*GSC Memoir 33 *GSC Map 64A	 1:63 360
Easton, R.M.	1986	Geochronology of Ontario, Part 1: Compilation of Data	OFR 5592	179 p.
Fortescue, J.A.C.	1985	Preliminary Studies of Lake Sediment Geochemistry in an Area Northeast of Sudbury, NTS 41I/15, 41P/2,7+10, Sudbury and Timiskaming Districts	OGS Geoph-Geoch Map 80 756	
Ginn, R.M.	1964	Timmins-Kirkland Lake Sheet, Cochrane, Sudbury and Temiskaming Districts, Ontario, Geological Compilation Series	ODM Map 2046	1:253 440
Graham, A.R.	1932	Tyrrell-Knight Area, Timiskaming and Sudbury Districts, Ontario	*ODM AR, 1932, Vol 41, pt 2 *ODM Map 41b	pp. 25-61 1:47 520

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
GSC	1956	Aeromagnetic Map, Gowganda, Ontario	GSC Map 284G	1:63 360
GSC	1957	Aeromagnetic Map, Shining Tree, Ontario	GSC Map 285G	1:63 360
Gupta, V.K.	1981	Bouger Gravity and Generalized Geological Map of Gogama - Gowganda Area, NTS 41P, Timiskaming and Sudbury Districts, Ontario	OGS Map P.2481	1:100 000
Gupta, V.K. Wadge, D.R.	1980	Bouger Gravity and Generalized Geological Map, Temagami-Englehart Area, NTS 31M/W, 41P/E, Timiskaming + 2 AL Districts, Ontario	OGS Map P.2296	1:100 000
Hunter & Assoc. Ltd.	1984	Peat and Peatland Evaluation of the New Liskeard Area, NTS 31M2 + 41P/E, Timiskaming + 2 other Districts	OGS OFR 5486	3 volumes
Jolly, W.T.	1978	Metamorphic History of the Archean Abitibi Belt	GSC Paper 78-10	pp. 63-78
Kretschmar, U. Kretschmar, D.	1980	Talc, Magnesite and Asbestos Deposits in the Kirkland Lake - Timmins Area, NTS 31M, 32D, 41O, 41P, 42A, 42B, Timiskaming + 2 AL Districts	OGS OFR 5310	
Kretschmar, U. Kretschmar, D.	1986	Talc, Magnesite and Asbestos Deposits in the Timmins - Kirkland Lake Area, Timiskaming and Cochrane Districts	OGS Study 28	
Kutina, Jan & Fabbri, Andrea	1971	Relationship of Structural Lineaments and Mineral Occurrences in the Abitibi area of the Canadian Shield	GSC Paper 71-9	36 p.
Legun, A.	1984	Huronian Stratigraphy and Sedimentation in the Cobalt area, NTS 31M/W + 41P, Ontario	OGS OFR 5508	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Long, D.G.F. Leslie, C.A.	1986	The Placer Gold Potential of the Early Aphebian Gowganda Formation along the Northern Margin of the Cobalt Embayment, Ontario with Comments on Associated Concentrations of Silver & Copper	OGS OFR 5608	
Mansinha, L. Wilkinson, D.A.	1983	Grant No. 109: Interpretation of Gravity Data from New Liskeard, NTS 31M/W, 41P/E, Ontario	OGS OFR 5440	
MNR	1982	Ontario Basic Maps	MNR Maps 20 17 4900 52700 20 17 4900 52800 20 17 5000 52700 20 17 5000 52800	1:20 000
MNR		Knight Township Claim Map.	MNR Map Plan No. M-228	1" = 40 ch.
OGS	1979	Airborne Gamma-Ray Spectrometry Maps and Profiles	OGS Geoph-Geoch Maps 80372 - 80410	1:250 000
Park, W.A.	1907	The Geology of a District from Lake Timiskaming Northward	*GSC Summary Report 1904 Vcl. XVI, pt A	pp. 198-225
Pyke, D.R. Ayres, L.D. Innes, D.G.	1973	Timmins-Kirkland Lake Geolcgical Compilation Series, Cochrane, Sudbury & Timiskaming Districts, Ontario	ODM Map 2205	1:253 440
Redman, J.D. Strangway, D.W.	1986	Ontario Geoscience Research Grant Program, Grant No. 118, Surface Electromagnetic Mapping in Northern Ontario	OGS OFR 5615	

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Author	Date	Title	Reference	Map Scales and/or Report Pages
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Roed, M.A.	1930	Elk Lake Area, NTS 41P/NE, Timiskaming District, Ontario	NOEGTS 83	
Roed, M.A. Hallett, D.R.	1980	NOEGTS Data Base Map, Elk Lake, NTS 41P/NE, Timiskaming District, Ontario	OGS Map 5020	1:100 000
Roed, M.A. Hallett, D.R.	1980	Gogama Area, NTS 41P/NW, Timiskaming & Sudbury Districts, Ontario	NOEGTS 82	
Roed, M.A. Hallett, D.R.	1980	NOEGTS Data Base Map, Gogama NTS 41P/NW, Timiskaming & Sudbury Districts	OGS Map 5019	1:100 000
Savage, W.S. Fenwick, K.G.	1962	Gogama Sheet, District of Sudbury and Timiskaming, Ontario	ODM Map P.151	1:126 720
Savage, W.S. Thomson, R. Fenwick, K.G.	1962	Elk Lake - New Liskeard Sheet, District of Timiskaming, Ontario	ODM Map P.159	1:126 720
Springer, J.	1977	Ontario Mineral Potential, Gogama Street + part of Ville Marie Sheet, NTS 41P, 31M/W, Timiskaming & Sudbury Districts, Ontario	OGS Map P.1514	1:250 000
Surveys and Mapping Branch, EMR	1976	Gowganda, Ontario	NTS 41P/10	1:50 000
Surveys & Mapping Branch, EMR	1976	Shining Tree, Ontario	NTS 41P/11	1:50 000
Surveys & Mapping Branch, EMR	1976	Matachewan, Ontario	NTS 41P/15	1:50 000
Surveys & Mapping Branch, EMR	1976	Sinclair Lake	NTS 41P/14	1:50 000

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Symons, D.T.A. Stupavsky, M.	1983	Grant No. 143: Analysis of Aeromagnetic Anomalies over Algoman-Type Iron Formations	OGS OFR 5476	
Vos, M.A., Abolins, T., McKnight, R.L.W., and Smith, V.	1987	Industrial Minerals of Northern Ontario	OGS MDC 26	

* Out of Print

NOTES AND ADDENDA

The exploration data map shows only the most important minerals found at each site. All the minerals noted are listed in the mineral occurrences or the drill hole data.

On the maps, only the areas for which work has been submitted to the Ministry are shown and thus a company may hold, or have held in the past, more ground than is shown.

The Tyranite Mine was in production from 1939-1942. Tyranex Gold Inc., Gunnar Gold Inc. and Mill City Gold Inc. have done extensive work on the property recently and are in the advanced exploration stage.

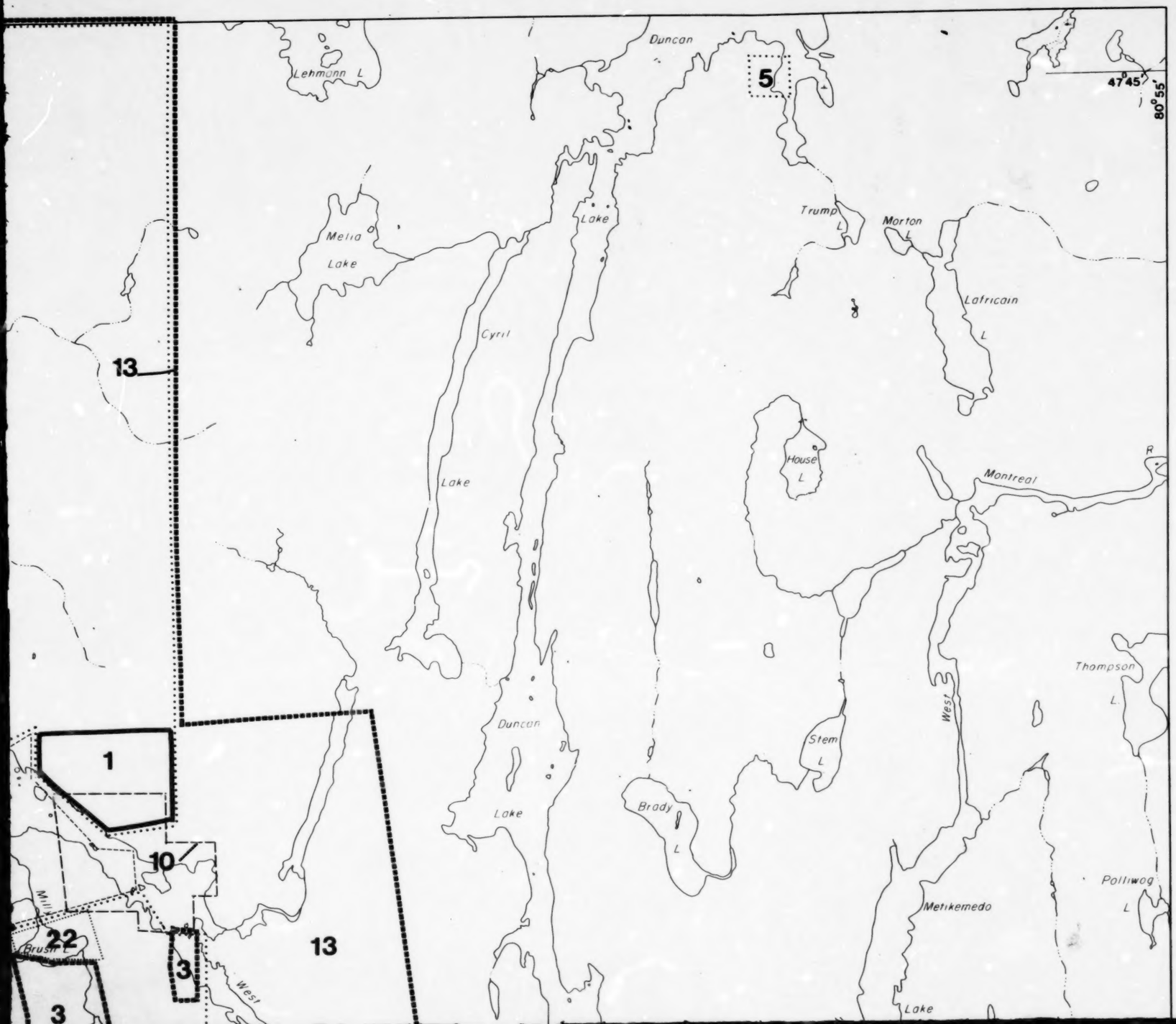
The township was closed to staking in 1978 due to the Bear Island Indian Caution.

AIR PHOTOS - on File in Cobalt

1" = 1/4 mile for 1959 and Strip 4728 for 1970.

Air photos can also be viewed at or purchased from the Public Service Centre, Room 1640, Whitney Block.

Lehmann L
Duncan
5
47°45'
80°55'
Trump L
Morton L
Lafricain L
Melia Lake
Lake
Cyril
Lake
House L
Montreal R
12
13
Pigeon
Lake
15,16
2
1
Arthuri L
9
21
10
19
6
22
Brush L
3
13
81°04'
47°41'
Duncan Lake
Brady L
Stem L
West
Thompson L
Polliwog L
Metikemedo
Ontari
GEOLO
KN
Kilome
Mile 0.5



Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 495

(Map 1 of 2)

KNIGHT TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Pigeon
Lake
Cyril
Lake
Lake
Duncan
Lake
Brady
L
Latricain
L
House
L
Montreal
R
Thompson
L
West
Stem
L
Polliwog
L
Metikemedo
Lake
Kilometre
Mile 0.5
KNI
EX
Ref
See
Sma
File
12
13
2
15,16
1
9
21
10
19
6
22
3
3
2
7
11
4
17
2
Moon
12
20
8
14
7
18
47°41'
81°04'

KNIGHT TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

Lake
Cyril
Lake
Latricain
L
House
L
Montreal
R
Thompson
L
West
Stem
L
Brody
L
Duncan
Lake
Metikeinedo
Lake
Pottwog
L
Lake
Brush
West
Montreal
13
1
10
22
3
3
20
14
7
8
18

EXPLORATION DATA FILE AREAS

- ■ 1 6 — Reference number is always inside work area outlined. See listing in text pages.
- □ x 4 — Small area of exploration
- □ ★ — File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ Geochemical sample site, with reference number
- ■ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☐ Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ Airborne radiometric anomaly
- ■ Ground magnetic anomaly
- ■ Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ Ground radiometric anomaly
- ☐ Induced polarization anomaly
- ☐ Self potential anomaly
- ☐ Audio-frequency magnetic anomaly (total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly
- ■ Airborne VLF Anomaly

MISCELLANEOUS DATA

Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 495

(Map 2 of 2)

KNIGHT TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp A. — Mineral occurrence at surface, with reference letter
- □ Au A. 84° — Mineral occurrence with shaft, depth given with reference letter
- □ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter
- □ A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ■ 2 — Location of single drillhole, with reference number
- ■ 2 — Location of closely spaced group of drillholes, with reference number

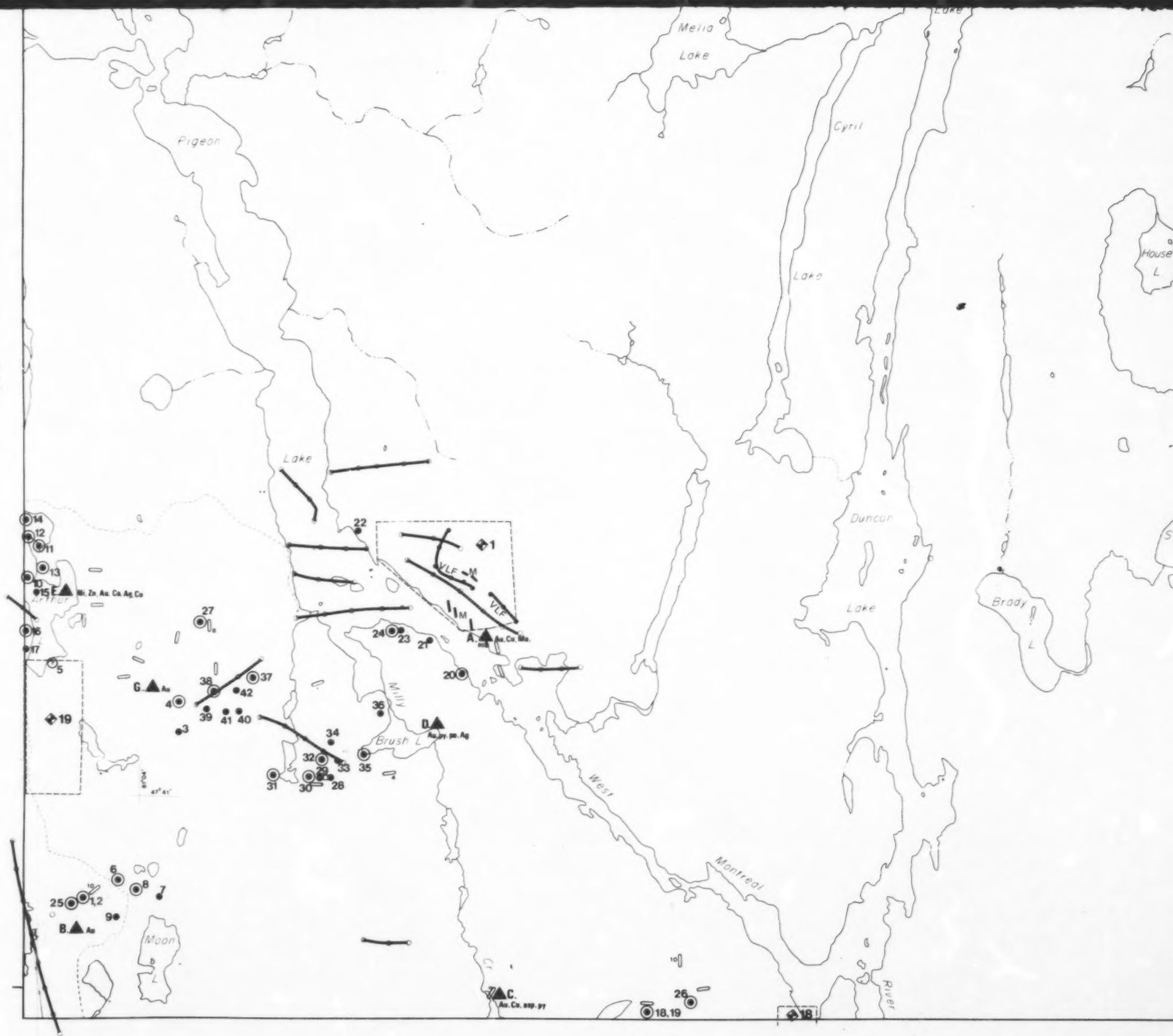
GEOPHYSICAL ANOMALIES

- ☐ —AM— Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly
  Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ☐ —ARA— Airborne radiometric anomaly
- ■ —M— Ground magnetic anomaly
- ■ —VL— Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ —RA— Ground radiometric anomaly
- ☐ —IP— Induced polarization anomaly
- ☐ —SP— Self potential anomaly
- ☐ —AFMAG— Audio-frequency magnetic anomaly
  (total intensity)
- ☐ —R— Resistivity anomaly
- ☐ —GR— Gravity anomaly
- ■ Airborne VLF Anomaly

MISCELLANEOUS DATA

- ■ Trenching, pit
- ☐ Adit
- ☐ Open pit
- ☐ Rock quarry
- ☐ Sand and/or gravel pit
- ■ Number of trenches or pits in a small area

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



KNIGHT TOWNSHIP

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

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- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- (?)² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area with reference number
- ○² — Property with drillholes which have not been plotted on map, with reference number
- ⊕² — Reverse circulation drillhole; churn drilling, with reference number

Melia Lake
Cyril Lake
Lafricain L
House L
Montreal R
Duncan Lake
Stem L
West Thompson L
Brady L
Pollwog L
Metakemedo Lake
West Montreal River
VLF
M
A. Au, Cu, Mo
D. Au, py, pn, Ag
C. Au, Cu, sup, py
18,19
18